

Job Title: ENGINEERING TECH IV - GEOMETRIC TECHNICIAN - IPR#45696

Agency : Department of Transportation

Closing Date/Time: 06/17/2022

Salary: \$4,790 - \$8,775 Monthly

Job Type: Salaried Full Time

County: Lee

Number of Vacancies: 1

Plan/BU: NR916 - Protech Teamsters

This position is a union position; therefore, provisions of the relevant collective bargaining agreement/labor contract apply to the filling of this position.

All applicants who want to be considered for this position MUST apply electronically through the illinois.jobs2web.com website. State of Illinois employees should click the link near the top left to apply through the SuccessFactors employee career portal.

Applications submitted via email or any paper manner (mail, fax, hand delivery) will not be considered.

Agency Mission Statement

The Illinois Department of Transportation is seeking to hire a Geometric Technician.

The IDOT team works diligently to provide safe, cost-effective transportation for Illinois in ways that enhance quality of life, promote economic prosperity and protect our environment. We are problem solvers and leaders, constantly searching for innovations and improvements in support of our commitment to providing the best multimodal transportation system for Illinois.

Our team fosters a culture of inclusivity. We value diversity and hold ourselves to the highest ethical standards as we work together for a common purpose. Team members frequently collaborate with colleagues and others outside the department to best meet customer needs.

Employees enjoy excellent benefits, including health, vision and dental insurance; a retirement plan and deferred compensation options; state holidays and other time off; tuition reimbursement; flexible schedules; and pre-tax benefit programs. The department also offers extensive training and career advancement opportunities.

We invite qualified applicants to apply to become part of our team. We are confident that you will take pride in serving Illinois and its residents and visitors.

Job Responsibilities

This position is accountable for the application of policies and procedures governing geometric design, capacity, and access control of highways for the design of intersections, interchanges, rest areas, and weigh stations. This position will become qualified to contribute to the district's ability to self-certify geometric designs.

Subordinate Personnel:	1 - 2 (Technical Temporary)
Intersections:	30 - 40
Interchanges:	2 - 4
Consultant Access Reviews:	20 – 40
Other Special Studies:	10 - 15
Project Value:	\$5,000 - \$300 Million

Nature and Scope

This position reports to the Geometrics Engineer. There are no subordinates reporting to this position, however, one to two technicians may report to this position on a temporary, as-needed basis.

This position is accountable for applying state policy to the development of designs for intersections, interchanges, rest areas, and weigh stations. The incumbent in this capacity also is responsible for reviewing

intersection geometrics submittals by counties, cities, consultants, developers, and individual citizens affecting highways under the department's immediate supervision. Upon the completion of his/her review, it is the responsibility of the incumbent to advise the Geometric Engineer of the design's consistency with state policy for approval or conversely its inconsistency with state policy for further processing.

The major challenge related to this position is that of maintaining a working expertise in the areas of research, development, presentation, and analysis of projects as assigned in order to remain capable of working independently with minimum supervision. A typical problem faced by the incumbent would be the design of a major intersection which would entail the use of survey data, the analysis of accident statistics, the preparation of capacity studies, the incorporation of his/her knowledge and ingenuity, and the preparation of preliminary cost estimates.

(Job Responsibilities continued)

This position is directly responsible for preparing access control plans, freeway orders, and location decisions where applicable. The incumbent must maintain an adequate filing system capable to allow an expeditious review of requests from other district Bureaus to determine if their request is consistent with our current access plans.

Additionally, the incumbent assists consultants, municipal representatives, and county officials with their intersection design studies and reviews their studies when directly involved with a highway under the department's jurisdiction; provides assistance to the Bureau of Local Roads; provides geometric designs for the Bureau of Operations for Spot Safety Projects involving minor geometric revisions; and reviews permit applications for correct geometric designs and considerations. Many requests are special situations that must be completed on very short notice and require adjusting workload priorities.

The incumbent works within parameters of local, state, and federal policies which are obtained from the Illinois Highway Standards Manual, Illinois Bureau of Design and Environment Manual, Urban American Association of State Highway and Transportation Officials (AASHTO) Manual, and the Highway Capacity Manual. The incumbent has the latitude to make any procedural changes to allow him/her to become more efficient at his/her principle accountabilities. Any waivers required from current policy and procedures for the development of Intersection Design Studies must be referred to the Geometrics Engineer.

The incumbent has internal contacts with all district Bureaus, as well as most of the central Bureaus for the purpose of achieving a viable intersection or interchange design. Externally, the incumbent has contacts with federal, state, county, and local representatives and the general public for the purpose of resolving access problems between their proposals and the highway network.

Design approval of projects and proper geometrics are the most important measures of success for both the individual and the unit.

Principal Accountabilities

1. Responsible for completion and/or review of geometric design studies of intersections and interchanges to conform to state policies.
2. Responsible for assisting the Bureau of Local Roads on matters pertaining to geometric design.
3. Responsible for developing preliminary layouts and estimates for Highway Safety Improvement Program projects involving minor geometrics for the Bureau of Safety Programs and Engineering.
4. Responsible for reviewing Bureau of Operations permits for geometric consideration. In case of conflicts, he/she is responsible for meeting with developers, individuals, or city and county officials to resolve any problems.
5. Performs duties in compliance with departmental safety rules. Performs all duties in a manner conducive to the fair and equitable treatment of all employees.
6. Performs other duties as assigned.

Qualifications

Position Requirements

- Completion of two years of college in civil engineering technology, pre-engineering or curriculum in civil engineering technology, pre-engineering, construction management, and/or transportation engineering; OR
- Seven years of engineering experience

Position Desirables

- Ability to perform difficult technical research work and make comprehensive recommendations on engineering problems is desirable.

- Thorough knowledge of civil engineering as it applies to the design, construction, and maintenance of highways is desirable.
- Prior use of highway capacity software is a benefit.
- Strong oral and written communication skills

Work Hours: 8:00 AM - 4:30 PM Monday-Friday

Work Location: 819 Depot Ave Dixon, IL 61021-3546

Office: Office of Highways Project Implementation/Region 2/District 2/Program Development

Agency Contact: DOT.CO.BPM.EmploymentApplications@Illinois.gov

Job Family: Transportation

APPLICATION INSTRUCTIONS

Use the "Apply" button at the top right or bottom right of this posting to begin the application process.

If you are not already signed in, you will be prompted to do so.

State employees should sign in to the career portal for State of Illinois employees – a link is available at the top left of the Illinois.jobs2web.com homepage in the blue ribbon.

Non-State employees should log in on the using the "View Profile" link in the top right of the Illinois.jobs2web.com homepage in the blue ribbon. If you have never before signed in, you will be prompted to create an account.

If you have questions about how to apply, please see the following resources:

State employees: Log in to the career portal for State employees and review the Internal Candidate Application Job Aid

Non-State employees: on Illinois.jobs2web.com – click "Application Procedures" in the footer of every page of the website.

The main form of communication will be through email. Please check your "junk mail", "spam", or "other" folder for communication(s) regarding any submitted application(s). You may receive emails from the following addresses:

- donotreply@SIL-P1.ns2cloud.com
- systems@SIL-P1.ns2cloud.com